

REMARKS

Applicant has amended claims 1 and 10 and made a minor amendment to the specification. Applicant respectfully submits that these amendments to the claims and specification are supported by the application as originally filed and do not contain any new matter. Accordingly, the Office Action will be discussed in terms of the specification and claims as amended.

Firstly, the Examiner has advised Applicant to consider revising the disclosure. Applicant has considered the Examiner's suggestion and made an amendment to the disclosure to clarify the description.

The Examiner has rejected claims 1-10 under 35 USC 103 as being obvious over Nakayama in view of Kinnaird, stating that Nakayama discloses a graphic transforming apparatus and method for use which uses a computer system that comprises objects and/or pattern acquiring means from a library of stored data images wherein portions of these graphic objects or patterns obtained from the data library are then used to redraw objects as per set requirements and a data display screen is used as a display means, but does not disclose the environment of the present invention; Kinnaird discloses the use of an automated system and method for bonding and testing of wire connections in an integrated circuit chip and further uses an automated system for testing purposes; and it would have been obvious to one of ordinary skill in the art to have combined the graphical transformation apparatus of Nakayama with the automated wire bonding means of Kinnaird.

In reply thereto, Applicant has carefully reviewed Nakayama and respectfully submits that Nakayama, as admitted by the Examiner, is not a wire bonding apparatus and does not relate to the manufacture of semiconductor devices. In particular, in Nakayama a figure which is to be changed in shape is replaced with a shape that was previously prepared; in contrast thereto, in Applicant's invention the shape can be created by controlling the loops. In view of the above, therefore, Applicant respectfully submits that not only does Nakayama not disclose the function of Applicant's invention but also is not from the same or analogous art and one of ordinary skill in the art would not consider Nakayama.

Applicant has further carefully reviewed Kinnaird and respectfully submits that Kinnaird is a measuring device that measures the tensile strength of a wire that has been previously been bonded and does not teach utilization in a wire bonding apparatus that installs wires. Still

further, Applicant respectfully submits that the strength measured in the tensile strength test and shearing test of the bond after the bonding has been performed are fed back as bonding parameters. Still further, Applicant respectfully submits that Kinnaird is not a means that decides on parameters that create the shape of loops. In contrast thereto, in Applicant's invention is provided a means that can easily establish the loop parameters, not the bonding parameters as in Kinnaird. Still further, contrary to the cited art in which parameters are determined based upon the results of bonding, in Applicant's invention the parameters for the loop can be determined visually before bonding and can be done easily.

In view of the above, therefore, Applicant respectfully submits that not only is the combination suggested by the Examiner not Applicant's invention but also the combination suggested by the Examiner would not be suggested to one of ordinary skill in the art since Nakayama is not the same or from an analogous art. As a result, Applicant respectfully submits that claims 1-10 are not obvious over Nakayama in view of Kinnaird.

In view of the above, therefore, it is respectfully requested that this Amendment be entered, favorably considered and the case passed to issue.

Please charge any additional costs incurred by or in order to implement this Amendment or required by any requests for extensions of time to KODA & ANDROLIA DEPOSIT ACCOUNT NO. 11-1445.

Respectfully submitted,

KODA & ANDROLIA


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